Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period:\_\_\_\_\_

**Cell Cycle: Interphase, Mitosis, and Cytokinesis**

1. Complete the outline of the steps in the cell cycle

**Interphase: period of \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ and DNA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

G1:

S:

G2:

**Mitosis: two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ made**

Prophase:

Metaphase:

Anaphase:

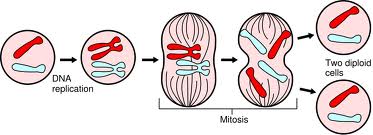
Telophase:

**Cytokinesis: cytoplasm \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_resulting in \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_**

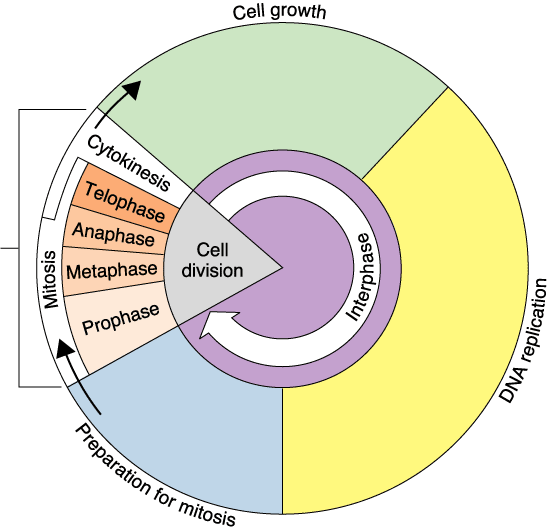
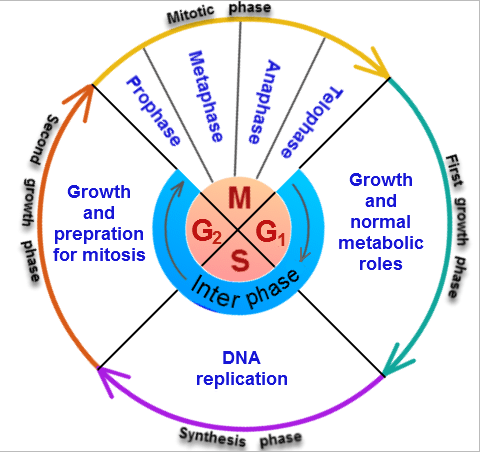
1. Match vocabulary from Sec 9.1 to the following definitions:
   * The period in which the cell is not dividing:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * The process of nuclear division: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * The sequence of events in the life of a eukaryotic cell:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. In at least one complete sentence, criticize the following statement: **Interphase is a “resting period” for the cell before it begins mitosis.**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Below is a simplied graphic of a cell going through interphase, mitosis, and cytokinesis. Label the pictures as showing interphase, mitosis, or cytokinesis AND breifly describe what occurs in each of these processes.



1. In the above graphic, what do the long linear shapes inside the cells (circles/ovals) represent? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Compare and contrast the following two cell cycle graphics.



1. Is there anything missing from either of the graphics? If so, what?